Amendments to the Claims:

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This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A surgical instrument, comprising:

a housing;

an electrical power source;

an output shaft extending from the housing;

a rotor coupled to the output shaft; wherein at least a portion of the rotor comprises a magnet having a remanence greater than or equal to about 1 T; and

a stator having: a winding selectively connectable to the electrical power source; and a magnetically conductive portion disposed about the rotor and comprising a plurality of laminations; and

a protective layer disposed between the stator and the rotor;

wherein selectively connecting the electrical power source and the stator windings imparts rotary motion to the output shaft via the rotor.

- 2. (Cancel) The surgical instrument of claim 1, further comprising a protective layer disposed between the stator and the rotor.
- 3. (Original) The surgical instrument of claim 1, wherein the protective layer comprises brass.
- 4. (Original) The surgical instrument of claim 1, wherein the remanence of the magnet is greater than or equal to about 1.15T.

- 5. (Original) The surgical instrument of claim 1, wherein the remanence of the magnet is greater than or equal to about 1 T after being autoclaved.
- 6. (Original) The surgical instrument of claim 1, wherein the magnet is a neodymium-iron-boron magnet.
- 7. (Original) The surgical instrument of claim 1, wherein the winding is a self-supporting winding.
- 8. (Original) The surgical instrument of claim 7, wherein the self-supporting winding is selected from the group consisting of a Faulhaber winding, a rhombic winding, concentric windings, or a self-supporting winding A.
- 9. (Original) The surgical instrument of claim 8, wherein the self-supporting winding is a self-supporting winding A.
- 10. (Currently Amended) The surgical instrument of claim 8, wherein the winding comprises a <u>substantially</u> rectangular shaped conductive element.
- 11. (Original) The surgical instrument of claim 8, wherein the winding comprises a conductive element and a thermoplastic element, wherein the thermoplastic element is disposed about the conductive element.

- 12. (Original) The surgical instrument of claim 1, wherein each of the plurality of stator laminations has a thickness of less than about 0.25 mm.
- 13. (Original) The surgical instrument of claim 1, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 30 mm.
- 14. (Original) The surgical instrument of claim 13, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 25 mm.
- 15. (Original) The surgical instrument of claim 14, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 20 mm.
- 16. (Original) The surgical instrument of claim 15, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 16 mm.
- 17. (Original) The surgical instrument of claim 15, wherein the housing, at least in a portion housing the stator, has an outer diameter of between about 15 mm and about 16 mm.
- 18. (Original) The surgical instrument of claim 13, wherein the stator has a length of less than about 100 mm.

- 19. (Original) The surgical instrument of claim 18, wherein the stator has a length of less than about 60 mm.
- 20. (Original) The surgical instrument of claim 19, wherein the stator has a length of less than about 50 mm.
- 21. (Original) The surgical instrument of claim 19, wherein the stator has a length in the range of between about 40 mm and 50 mm.
 - 22. (Original) A surgical instrument, comprising:

a housing;

an electrical power source;

an output shaft extending from the housing;

a rotor coupled to the output shaft; and

a stator having;

a winding selectively connectable to the electrical power source, wherein the winding is a self-supporting winding; and

a magnetically conductive portion disposed about the rotor and comprising a plurality of laminations;

wherein selectively connecting the electrical power source and the stator windings imparts rotary motion to the output shaft via the rotor.

- 23. (Original) The surgical instrument of claim 22, wherein the self-supporting winding is selected from the group consisting of a Faulhaber winding, a rhombic winding, concentric windings, or a self-supporting winding A.
- 24. (Original) The surgical instrument of claim 23, wherein the self-supporting winding is a self-supporting winding A.
- 25. (Currently Amended) The surgical instrument of claim 23, wherein the winding comprises a <u>substantially</u> rectangular shaped conductive element.
- 26. (Original) The surgical instrument of claim 23, wherein the winding comprises a conductive element and a thermoplastic element, wherein the thermoplastic element is disposed about the conductive element.
- 27. (Original) The surgical instrument of claim 22, wherein each of the plurality of stator laminations has a thickness of less than about 0.25 mm.
- 28. (Original) The surgical instrument of claim 22, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 30 mm.
- 29. (Original) The surgical instrument of claim 28, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 25 mm.

- 30. (Original) The surgical instrument of claim 29, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 20 mm.
- 31. (Original) The surgical instrument of claim 30, wherein the housing, at least in a portion housing the stator, has an outer diameter of less than about 16 mm.
- 32. (Original) The surgical instrument of claim 31, wherein the housing, at least in a portion housing the stator, has an outer diameter of between about 15 mm and about 16 mm.
- 33. (Original) The surgical instrument of claim 28, wherein the stator has a length of less than about 100 mm.
- 34. (Original) The surgical instrument of claim 28, wherein the stator has a length of less than about 60 mm.
- 35. (Original) The surgical instrument of claim 29, wherein the stator has a length of less than about 50 mm.
- 36. (Original) The surgical instrument of claim 29, wherein the stator has a length in the range of between about 40 mm and about 50 mm.
 - 37. (Currently Amended) An electric motor for use in a surgical procedure, comprising: a motor output member;

a driven member coupled to the motor output member; and

a driving member having a winding and a magnetically conductive portion disposed proximate the driven member such that energizing the driving member imparts motion to the driven member,

wherein at least a portion of the driven member comprises a magnet having a remanence greater than or equal to about 1 T, and

wherein the winding is a self-supporting winding and is electrically connected to an electrical supply at only one end of the winding.

- 38. (Currently Amended) The electric motor of claim 37, wherein each of the laminations have has a thickness of less than or equal to about 0.20 mm.
- 39. (Original) The motor of claim 37, wherein the motor is adapted for placement in an instrument having an outside diameter of less than about 25 mm.
- 40. (Original) The motor of claim 39, wherein the motor is adapted for placement in an instrument having an outside diameter of less than about 20 mm.
- 41. (Original) The motor of claim 40, wherein the stator has a length of less than about 50 mm.